Supplementary Table 1. Differences in DTI values in ROIs that were significantly different between AHC patient and controls

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Tract ROI	Difference (AHC-control mean)			
	FA (×10 ⁻²)	MD (×10 ⁻⁵ mm ² /s)	AD (×10 ⁻⁵ mm ² /s)	RD (×10 ⁻⁵ mm ² /s)
Anterior limb of internal capsule (right)	-1.48	5.84 [†]	7.61	4.96
Anterior limb of internal capsule (left)	0.95	4.38*	9.43 [†]	1.86
Retrolenticular part of internal capsule (left)	0.23	8.52 [†]	15.89 [†]	4.83
Anterior corona radiata (left)	2.28	3.94	9.89*	0.96
External capsule (left)	3.66	3.04	10.11 [†]	-0.49
Cingulum (cingulate gyrus) (right)	-0.21	8.18*	13.88*	5.33
Cingulum (cingulate gyrus) (left)	-3.79	6.43*	4.70	7.29*
Fornix (cres) / Stria terminalis (left)	2.64	5.43	14.96 [†]	0.66
Superior longitudinal fasciculus (left)	0.62	4.68*	8.66*	2.68
Superior fronto-occipital fasciculus (left)	3.76	4.29	12.61*	0.13

The DTI dataset of the patient was obtained using single-shot echo-planar imaging (repetition time = 12,000 ms, echo time = 88.9 ms, field of view = 240×240 mm², matrix = 128×128 , thickness = 3.0 mm, scan time = 6 min 40 s, b-value 1,000 s/mm², 32 noncollinear directions) and compared to our database of 25 normal controls with a similar mean age $(29.1 \pm 7.1 \text{ years})$. *exceeds ± 1.96 standard deviations from the control group (p < 0.05 equivalent), †exceeds ± 2.575 standard deviations from the control group (p < 0.01 equivalent). DTI: diffusion tensor imaging, AHC: alternating hemiplegia of childhood, ROI: region of interest, FA: fractional anisotropy, MD: mean diffusivity, AD: axial diffusivity, RD: radial diffusivity.